Product Name
Monoclonal Human
Anti-WD repeat-containing protein 5 (WDR5)
immunoglobulin

CAT No.
MQR 2.1301

LOT No.
16217

Quantity
100 µg

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Intended use
This product is for research use only. NOT for use in diagnostic or therapeutic procedures.
This product is tested for use in enzyme-linked immunosorbent assay (ELISA), immunoprecipitation (IP), and Chromatin immunoprecipitation quantitative real-time PCR (ChIP-qPCR).

Reagent provided
The antibody is supplied in PBS

Isotype
Human IgG1κ

Immunogen
Full-length human WD repeat domain 5

Specificity
Specificity has been tested in ELISA (figure 1), IP-MS and ChIP-qPCR.

Purity
Protein A purified.

Precautions
1. For professional users.
2. As with any product derived from biological sources, proper handling procedures should be used.
3. The product may be used in different techniques and in combination with different sample types and materials, therefore each individual laboratory should validate the applied test system.

Preparation of the antibody
Use antibody as supplied.

Storage instructions
Store at -20°C.

Application guidelines
ELISA: 1:5000 – 1:25000
IP: 2 µg/ml
Unless the stability in the actual test system has been established, it is recommended to dilute the product immediately before use.

Relevance
Contributes to histone modification. May position the N-terminus of histone H3 for efficient trimethylation at 'Lys-4'. As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. May regulate osteoblasts differentiation.[1]

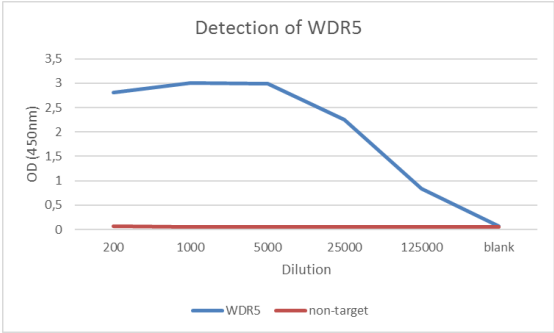

Figure 1: Specificity of WDR5 (MQR2.1301), determined by ELISA. Antibody diluted in PBS containing 0.05% tween-20 and 1% BSA was tested on human WDR5 and BRD4 (non-target).

References
1) UniProt Consortium 2017, 'WD repeat-containing protein 5', UniProtKB Protein Knowledgebase, viewed 12 May 2017, http://www.uniprot.org/uniprot/P61964